

ABSTRACT

The valve timing change apparatus of the present invention is the apparatus for changing the relative angle position between a cam shaft 10 and a sprocket 30, which comprises an angle change mechanism 80 changing and holding the relative angle position between the cam shaft 10 and the sprocket 30 by oil pressure, an oil pressure generating mechanism 90 generating oil pressure for driving the angle change mechanism 80 by relative rotation, and an electromagnetic retarder 100 generating relative rotation at the oil pressure generating mechanism 90. With this structure, simplification and downsizing of the apparatus, reduction of engine load, suppression of oil pressure drop, etc. can be obtained. Then, a plurality of the apparatus can be mounted on an engine. In this manner, downsizing of the valve timing change apparatus, reduction of engine load, downsizing of an oil pump, etc. can be obtained.